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? BOB TOMKO /DTC

**PHASE II ENVIRONMENTAL
ASSESSMENT OF THE
DOUGLAS AIRCRAFT COMPANY
C-6 FACILITY, PARKING LOT AND
TOOL STORAGE YARD
LOS ANGELES, CA**

Prepared for:

**MCDONNELL DOUGLAS
REALTY COMPANY**

Prepared by:

**CAMP DRESSER & MCKEE INC.
Irvine, California**

August 21, 1991

CDM

*environmental engineers, scientists,
planners, & management consultants*

CAMP DRESSER & MCKEE INC.

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August 21, 1991

Mr. Gary Powley
MCDONNELL DOUGLAS REALTY CO.
18881 Von Karman, Suite 1200
Irvine, California 92715

Subject: Submittal of Phase II Environmental Assessment Report of the Douglas Aircraft Company C-6 Facility, Parking Lot and Tool Storage Yard

Dear Mr. Powley:

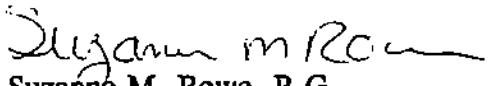
Camp Dresser & McKee Inc. (CDM) is pleased to submit the enclosed Phase II Environmental Assessment Report for the subject property. Six copies have been provided for your use.

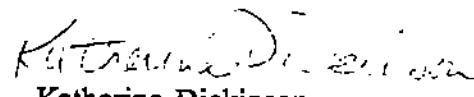
The report presents the findings and conclusions of the Phase II subsurface soil investigation detailed in the project scope of work.

Please call either me or Katherin Dickinson if you have any questions. It has been a pleasure to serve McDonnell Douglas Realty.

Very truly yours,

CAMP DRESSER & MCKEE INC.


Suzanne M. Rowe, R.G.
Project Manager


Katherine Dickinson
Project Hydrogeologist

Enclosures

2299-115-RT-AUDT

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1.0 INTRODUCTION

Camp Dresser & McKee Inc. (CDM) was contracted by McDonnell Douglas Realty Company (MDR) on April 5, 1991 to conduct a Phase I investigation at the Douglas Aircraft Company C-6 Facility parking lot and tool storage yard (the project site). A Phase I Environmental Assessment of the subject property was completed by CDM and a report was submitted to MDR on June 13, 1991. Based on the results of the Phase I assessment, and due to the fact that the presence of contaminated ground water from off-site sources is not of primary concern, past or present activities at the project site do not warrant an extensive Phase II investigation. However, a preliminary subsurface soil investigation was requested by MDR to provide an additional level of confidence regarding subsurface soil conditions at the subject property. On July 13, 1991, MDR provided authorization to amend the Phase I contract to commence with the Phase II subsurface soil investigation.

The purpose of this report is to summarize the findings and conclusions of the Phase II field investigation. The Phase II investigation consisted of six soil borings to provide data on the potential for subsurface soil contamination resulting from activities on- or off-site. Three soil borings were located in the parking lot, where ground water contamination from trichloroethylene (TCE) has been detected in two monitor wells along the western and northwestern boundary of the lot. The remaining three borings were located in the tool storage area including areas bordering the Montrose Chemicals site and the Department of Water and Power (DWP) power substation.

2.0 PHASE II FIELD INVESTIGATION PROCEDURES

The Phase II investigation consisted of drilling and sampling six 30-foot subsurface soil borings to determine the presence or absence of contamination at each location. The following sections describe the drilling and sampling procedures along with a discussion on decontamination and quality control measures.

2.1 Soil Boring Locations

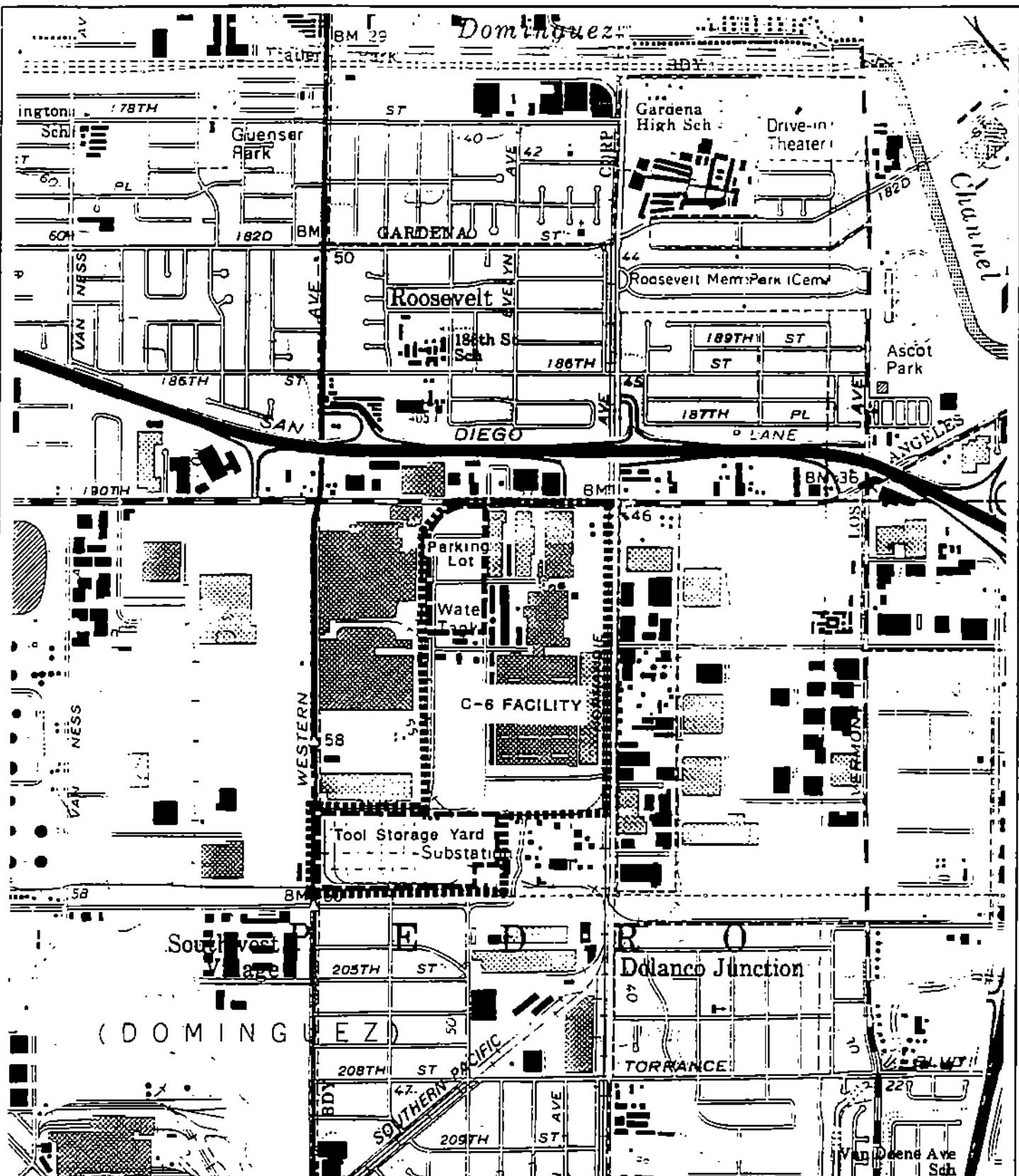
The Douglas Aircraft Company C-6 facility location is shown on Figure 1. Soil boring locations are shown on Figure 2. The locations were selected to accomplish the objectives of the Phase II investigation. Borings B-1 and B-3 were located along the perimeter of the parking lot adjacent to wells WCC-10S and DAC-P1, respectively, both of which have shown elevated levels of TCE in the ground water believed to be attributable to off-site activities. Boring B-2 was located in the center of this parking lot. Borings B-4 and B-5 were located in the tool storage yard near the DWP power substation, with B-4 along the perimeter of the Montrose Chemical property. Boring B-6 was located in the approximate center of the tool storage yard.

Underground Service Alert was notified by CDM prior to drilling at the proposed locations. In addition, MDR supplied plans of all underground utilities on each parcel and confirmed all soil boring locations prior to drilling. No underground obstructions were encountered during drilling.

2.2 Drilling and Soil Sampling

Beylik Drilling Inc. of La Habra was contracted by CDM to perform borehole drilling. The field work commenced on July 18, 1991 and was completed on July 19, 1991.

Soil borings were drilled using a hollow stem auger rig with eight-inch outer diameter auger flights. Soil samples were obtained every five feet using a one and one-half-inch diameter split-spoon sampler (California Ring Sampler) fitted with six 2-1/2-inch long interior stainless steel sampling sleeves. The number of blows required to drive the sampler per six-inch increment was recorded in the field log book and is included on boring logs in Appendix 1. The blow count gives an indication of the relative density of the material being sampled. The total depth of each borehole was 31.5 feet below the ground surface (bgs).



MCDONNELL DOUGLAS REALTY COMPANY

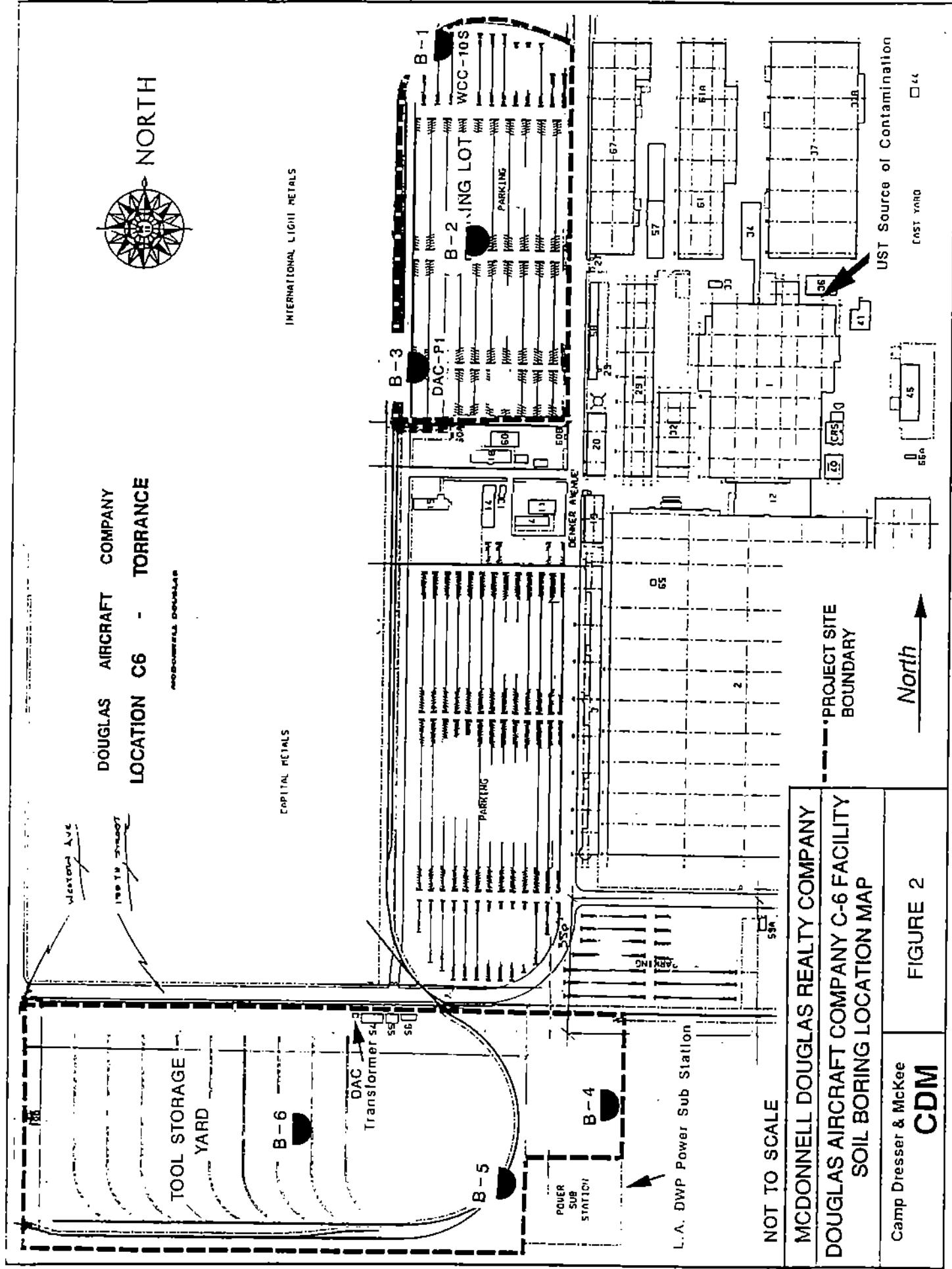
TORRANCE PROJECT SITE

Camp Dresser & McKee

CDM

FIGURE 1

MAP SOURCE: U.S.G.S. TORRANCE QUAD



Immediately upon opening the sampler, the soil was checked with a photoionization detector (PID) for the presence of organic vapors. Organic vapors were not detected in any of the soil samples subjected to field screening with the PID (all measurements were zero parts per million or equal to background measurements). In addition, there were no visible or olfactory indications of contamination (i.e., staining or hydrocarbon odor). The two lowermost sleeves from each five-foot sample interval were prepared by covering each end with teflon tape and securing plastic caps over the ends. The lowermost sleeve was labeled with each five-foot increment and was composited into one sample for the entire boring. The next lowermost sleeve was labeled with the five-foot increment plus 0.2 feet and was saved by the lab for later analysis in the event that contamination was identified. The two sleeves from each five-foot interval were then labeled with waterproof ink, placed inside a ziplock bag and placed into sealable ice chests and cooled with blue ice immediately after sampling.

Sample containers were labeled according to the following coding:

<u>McDonnell Douglas Realty - Torrance Site</u>	<u>Soil Boring No.</u>	<u>Sample Depth</u>
MDT	B-1	5

Sample container labels also included date and time of sampling. The samples were delivered by CDM personnel to CKY Laboratories of Torrance at the end of each day of sampling. Chain of custody forms accompanied the samples at all times.

The soil material was logged using the Unified Soil Classification System (USCS) and recorded into a field log book. Borehole logs for each of the soil borings are included in Appendix 1. All soil cuttings were collected in 55-gallon drums which are currently stored on site and will be disposed of by MDR.

2.3 Sample Analysis

The analytical protocols established for the soil samples collected during this investigation were based on available information concerning past and present activities at the project site and surrounding properties. Due to the known presence of ground water contamination of TCE, chloroform, and a variety of other volatile organic compounds, all composited soil samples were analyzed according to EPA Methods 8010/8020 for the presence of halogenated and aromatic volatile organic compounds. In addition, composited samples from each boring were analyzed for 13 Priority Pollutant Metals according to EPA Methods due to the fact that metal processing plants are adjacent to both parcels. Two soil samples collected adjacent to the Montrose Chemicals site and the DWP power substation were also be analyzed for organochlorine pesticides and PCBs according to EPA Method 8080 due to the documented DDT contamination at the Montrose site and potential for PCB contamination adjacent to the DWP substation. All soil samples were screened in the field with a photoionization detector for the presence of volatile organic compounds.

2.4 Equipment Decontamination

All downhole drilling and sample driving equipment was steam-cleaned prior to first use and between each boring. Non-disposable sampling equipment such as split-spoon samplers, stainless steel sleeves, plastic end caps, bailers and spatulas, were decontaminated according to the following procedures:

1. Wash with laboratory grade detergent (Alconox)
2. Rinse with tap water
3. Rinse twice with deionized/distilled water
4. Rinse with reagent grade methanol
5. Rinse with deionized water

All decontaminated sampling equipment was stored on clean polyethylene sheeting or in new plastic trash bags. Decontaminated equipment was not allowed to touch the ground. These decontamination procedures were utilized to help prevent cross-contamination and ensure the integrity of each sample.

3.0 RESULTS OF PHASE II INVESTIGATION

3.1 Soil Sample Analysis

Each composite sample obtained from the facility was analyzed for volatile organic compounds by EPA Methods 8010/8020 and for priority pollutant metals by EPA Methods 3050/6010/7000. Samples B-4 and B-5 were also analyzed by EPA Method 8080, for PCBs and organochlorine pesticides. Volatile organic results for all borings are summarized in Table 1, whereas metals, pesticides and PCB results are summarized in Table 2. The laboratory data sheets and chain of custody forms as provided by CKY Laboratory of Torrance, are included in Appendix 2.

No purgeable aromatic compounds, EPA Method 8020, were detected above the detection limit of 5.0 $\mu\text{g}/\text{kg}$ in any of the composite samples. Chlorobenzene was the only purgeable halocarbon, EPA Method 8010, detected in any of the samples. It was detected at 8.40 $\mu\text{g}/\text{kg}$ in sample B-3, just above the detection limit of 5.0 $\mu\text{g}/\text{kg}$. Available information on ground water contamination in the vicinity of B-3 has not indicated that chlorobenzene is a contaminant found in the ground water.

No pesticides or PCBs by EPA Method 8080 were detected in any of the composite soil samples at detection limits ranging from 0.01 mg/kg to 0.10 mg/kg. The metals antimony, beryllium, lead, mercury, selenium, silver and thallium were not detected in any of the soil samples. Cadmium, chromium, copper, nickel and zinc were all detected in composite samples, and arsenic was detected in all composite samples except for B-5. Detection limits for metals ranged from 0.05 mg/kg to 10.00 mg/kg.

TABLE 1
McDONNEL DOUGLAS REALTY
DOUGLAS AIRCRAFT COMPANY
C-6 FACILITY, PARKING LOT AND TOOL STORAGE AREA
8010/8020 ORGANIC ANALYTICAL RESULTS
SOIL SAMPLES

Compound	B1	B-2	B-3	B-4	B-5	B-6
8010 Parameters						
Benzylchloride	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromodichloromethane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromoform	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Bromomethane	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
Carbon Tetrachloride	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chlorobenzene	< 5.00	< 5.00	8.40	< 5.00	< 5.00	< 5.00
Chloroethane	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
2-Chloroethylvinylether	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chloroform	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Chloromethane	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
Chlorotoluene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Dibromochloromethane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,2-Dichlorobenzene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,3-Dichlorobenzene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,4-Dichlorobenzene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Dichlorodifluoromethane	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
1,1-Dichloroethane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,2-Dichloroethane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,1-Dichloroethene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,2-Dichloroethene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,2-Dichloropropane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
cis-1,3-Dichloropropene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
trans-1,3-Dichloropropene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Ethylene Dibromide	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Methylene Chloride	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,1,2,2-Tetrachloroethane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Tetrachloroethene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,1,1-Trichloroethane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
1,1,2-Trichloroethane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Trichloroethene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Trichlorofluoromethane	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Vinyl Chloride	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
8020 Parameters						
Benzene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Ethylbenzene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Toluene	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Xylenes, Total	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00

Note: All results in micrograms per kilogram (ug/kg)

Laboratory analyses performed by CKY.

< Denotes non-detection at indicated detection limit

TABLE 2
McDONNELL DOUGLAS REALTY
DOUGLAS AIRCRAFT COMPANY
C-6 FACILITY, PARKING LOT AND TOOL STORAGE AREA
METALS, PESTICIDES & PCBs ANALYTICAL RESULTS
SOIL SAMPLES

Compound	B-1	B-2	B-3	B-4	B-5	B-6
3050/6010/7000 Metals						
Antimony	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Arsenic	12.00	11.00	13.00	15.00	< 5.00	7.80
Beryllium	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cadmium	2.90	2.20	2.40	2.40	1.60	1.90
Chromium, Total	23.00	18.00	19.00	20.00	13.00	14.00
Copper	23.00	18.00	19.00	24.00	11.00	11.00
Lead	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Mercury	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	11.00	12.00	10.00	13.00	9.40	8.50
Selenium	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
Silver	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Thallium	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00
Zinc	68.00	59.00	62.00	65.00	40.00	44.00
8080 Pesticides						
Aldrin	NA	NA	NA	< 0.02	< 0.02	NA
Alpha-BHC	NA	NA	NA	< 0.01	< 0.01	NA
Beta-BHC	NA	NA	NA	< 0.02	< 0.02	NA
Delta-BHC	NA	NA	NA	< 0.02	< 0.02	NA
Gamma-BHC (Lindane)	NA	NA	NA	< 0.01	< 0.01	NA
Chlordane	NA	NA	NA	< 0.05	< 0.05	NA
4,4'-DDD	NA	NA	NA	< 0.02	< 0.02	NA
4,4'-DDE	NA	NA	NA	< 0.02	< 0.02	NA
4,4'-DDT	NA	NA	NA	< 0.02	< 0.02	NA
Dieldrin	NA	NA	NA	< 0.02	< 0.02	NA
Endosulfan I	NA	NA	NA	< 0.02	< 0.02	NA
Endosulfan II	NA	NA	NA	< 0.05	< 0.05	NA
Endosulfan Sulfate	NA	NA	NA	< 0.05	< 0.05	NA
Endrin	NA	NA	NA	< 0.02	< 0.02	NA
Endrin Aldehyde	NA	NA	NA	< 0.05	< 0.05	NA
Heptachlor	NA	NA	NA	< 0.02	< 0.02	NA
Heptachlor Epoxide	NA	NA	NA	< 0.02	< 0.02	NA
Methoxychlor	NA	NA	NA	< 0.10	< 0.10	NA
Toxaphene	NA	NA	NA	< 0.10	< 0.10	NA
8080 PCBs						
Aroclor-1016	NA	NA	NA	< 0.10	< 0.10	NA
Aroclor-1221	NA	NA	NA	< 0.10	< 0.10	NA
Aroclor-1232	NA	NA	NA	< 0.10	< 0.10	NA
Aroclor-1242	NA	NA	NA	< 0.10	< 0.10	NA
Aroclor-1248	NA	NA	NA	< 0.10	< 0.10	NA
Aroclor-1254	NA	NA	NA	< 0.10	< 0.10	NA
Aroclor-1260	NA	NA	NA	< 0.10	< 0.10	NA

Note: All metal, pesticide and PCB results in milligrams per kilogram (mg/kg)

< Denotes non-detection at indicated detection limit

= Denotes compound concentration is equal to the detection limits

NA Denotes parameter not analyzed

The inorganic analysis results were evaluated relative to standards set by the California Administrative Code, Title 22 (Modified August, 1986). These standards are shown on Table 3. Wastes with concentrations exceeding the Total Threshold Limit Concentration (TTLC) may be considered to be hazardous by the California Department of Health. Materials with total concentrations greater than ten times the soluble threshold limit concentration (STLC) values are considered hazardous and are required to be reanalyzed by wet extraction. Table 4 shows normal ranges of metals in western United States soils. Arsenic concentrations ranged from non-detect in B-5 to 15 mg/kg in B-4. Typical background levels of arsenic soils of the western U.S. range from 2.8 - 10.9 mg/kg. Although soil samples from B-1, B-2, B-3 and B-4 were slightly above the upper limit of this range, the levels of arsenic are not necessarily indicative of contamination at the site. The STLC for arsenic is 5 mg/kg, therefore, 10 times this value or 50 mg/kg is well above the arsenic levels detected at the site. The arsenic levels at the site, therefore, would not be considered hazardous from a regulatory standpoint.

Cadmium was detected in all six borings at concentration ranging from 1.6 mg/kg in B-5 to 2.9 mg/kg in B-1. These levels are above the STLC of 1 mg/kg but less than ten times the STLC (10 mg/kg). These levels are also above the typical range of 0.1 mg/kg to 0.5 mg/kg for western soils. Although the native sediments in this area are not known to contain high levels of cadmium, it is possible these soils were imported fill. Cadmium is a metal used in several industrial activities, including pigment in paint.

Chromium was detected at levels from 13 to 23 mg/kg. These values are well below the STLC of 560 mg/kg, and fall within or below the normal range of western U.S. soils of 19-90 mg/kg. Copper was detected at levels from 11 to 24 mg/kg. These values fall within the normal range of copper in western U.S. soils of 10 to 43 mg/kg. All of the copper results are below the STLC of 25 mg/kg.

Nickel was detected in borings at values from 8.5 to 13 mg/kg. These are below the STLC for nickel (20 mg/kg) and within normal values for soils in western U.S. (7-32 mg/kg). Zinc

Table 3 California Standards for Inorganic Compounds¹

Substance	Soluble Threshold Limit Concentration ² (mg\kg)	Total Threshold Limit Concentration (mg\kg)
Antimony	15	500
Arsenic	5	500
Barium	100	10,000
Beryllium	0.75	75
Cadmium	1	100
Chromium (III)	560	2500
Cobalt	80	8,000
Copper	25	2,500
Lead	5	1,000
Mercury	0.2	20
Molybdenum	350	3,500
Nickel	20	2,000
Selenium	1	100
Silver	5	500
Vanadium	24	2,400
Zinc	250	5,000

¹ California Administrative Code, Title 22, Modified August, 1986

² Analysis by wet extraction required if total concentration is less than ten times the Soluble Threshold Limit Concentration

TABLE 4
NORMAL RANGES OF ELEMENTAL CONCENTRATIONS
IN SOILS OF THE WESTERN UNITED STATES*

<u>Element</u>	<u>Mean**</u> (mg/kg)	<u>Normal Range</u> <u>Mean ± 1 s.d.**</u> (mg/kg)
Aluminum	38,000	29,000 - 11,600
Antimony	0.47	0.22 - 1.01
Arsenic	5.5	2.8 - 10.9
Barium	580	337 - 998
Beryllium	0.68	0.30 - 1.56
Cadmium	0.2	0.1 - 0.5
Chromium	41	19 - 90
Cobalt	7.1	3.6 - 14.0
Copper	21	10 - 43
Iron	21,000	10,800 - 41,000
Lead	17	9 - 31
Manganese	380	192-752
Mercury	0.05	0.02 - 0.11
Nickel	15	7 - 32
Selenium	0.23	0.09 - 0.56
Silver	0.2	0.1 - 0.5
Thallium	0.2	0.1 - 0.4
Tin	0.9	0.4 - 1.9
Vanadium	70	36 - 136
Zinc	55	31 - 98
Molybdenum	0.85	0.39 - 1.85
Thorium	9.1	6.1 - 13.6
Uranium	2.5	1.7 - 3.6
Yttrium	22	13 - 37

* Data From: Shacklette, H.T., and Boerngen, J.G.; 1984: Element Concentrations in Soils and other Surficial Materials of the Conterminous United States. U.S. Surv. Professional Paper 127, 105 pp.

** Means and standard deviations are geometric to account for log-normal distributions.

concentrations in soil samples ranged from 40 to 68 mg/kg, well below the STLC of 250 mg/kg. Zinc values for western U.S. soils range from 31-98 mg/kg.

3.2 Subsurface Soil Conditions

Soils encountered during drilling included silty sands and clayey, silty sands. Minor gravel and shell fragments were present in some borings. Soil lithologies are identified on each of the soil borings included in Appendix 1.

Ground water was not encountered in any of the borings, nor were any perched ground water zones. According to the Phase I report (CDM), shallow ground water is approximately 70-72 feet below ground surface, with ground water flow direction from the northwest to the southeast.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this limited Phase II investigation, we do not believe that further soil investigations are warranted at the site. Although no federal, state, or local clean-up standard exists for chlorobenzene, the concentration of 8.4 $\mu\text{g}/\text{kg}$ in boring B-3 is not likely to be cause for concern by applicable regulatory authorities. Similarly, all of the concentrations of inorganic constituents (notably arsenic, cadmium, chromium, nickel, and zinc) are not of a magnitude which would require further investigation or remediation.

The conclusions stated above are, necessarily, based on data from six borings drilled across an approximate 46-acre site. As such, we cannot conclusively state that subsurface soil contamination does not exist at the site. However, given that the locations of the soil borings were selected based on where existing information indicated higher potential for contamination to occur, the results of this investigation do demonstrate that the probability of extensive subsurface soil contamination existing on the site is low.

5.0 REFERENCES

Camp Dresser & McKee Inc., Phase I Environmental Assessment of the Douglas Aircraft C-6 Facility, Parking Lot and Tool Storage Yard, Los Angeles, California, June 13, 1991.

Douglas Aircraft Company, various maps and plans of the project site.

APPENDIX 1
SOIL BORING LOGS

CLIENT MDC REALTY COMPANY
 SITE C-6 FACILITY, TORRANCE
 JOB NUMBER 2299-115-RT-AUDT
 DRILLING CONTR. BEYLIK DRILLING

BOREHOLE NO. B-1

TOTAL DEPTH 31.5 feet

CAMP DRESSER & MCKEE INC.

ELEVATION N. A.

DATE DRILLED 18 JULY 91

LOGGED BY EMILY WEYAND

DRILLING METHOD HOLLOW-STEM AUGER

DEPTH (feet)	DESCRIPTION	USCS	GRAPHIC LOG			SAMPLES		PID (ppm) and R/hr	BLOW COUNT (per 6" interval)	RECOV. / ADV. (feet)
			Lithology	Borehole Abandoned	Water Level	Lab	Lith			
5	5-6.5' SILTY SAND - dusky yel brn, 10YR 2/2, f to m g sand, sl damp, no odor, minor fine pebbles, minor clay.	SM						0/0	10-10-13	
10	10-11.5' SILTY SAND - mod yel brn, 10YR 5/4, f to m g sand, no odor, no pebbles, minor clay.	SM						0/0	9-13-20	
15	15-16.5' SILTY SAND - as at 10'.	SM						0/0	9-14-22	
20	20-21.5' SILTY SAND - as at 10'.	SM						0/0	8-8-13	
25	25-26.5' CLAYEY, SILTY SAND - mod yel brn 10 YR 5/4, f g sand, moist, no odor.	SM to SC						0/0	11-12-15	
30	30-31.5' SILTY SAND - dk yel orange, 10YR 6/6, f to c g sand, no odor, no clay.	SM						.4/.4	14-24-26	
35										
40										

GROUT

NO GROUND WATER ENCOUNTERED
ONE COMPOSITE SAMPLE FOR ENTIRE BORING

CLIENT MDC REALTY COMPANY
 SITE C-6 FACILTY, TORRANCE
 JOB NUMBER 2299-115-RT-AUDT
 DRILLING CONTR. BEYLIK DRILLING

BOREHOLE NO.

B-2

CAMP DRESSER & MCKEE INC.

TOTAL DEPTH

31.5 feet

ELEVATION

N. A.

DATE DRILLED

18 JULY 91

LOGGED BY

EMILY WEYAND

DRILLING METHOD

HOLLOW-STEM AUGER

DEPTH (feet)	DESCRIPTION	USCS	GRAPHIC LOG			SAMPLES		PID (ppm) and R/hr	BLOW COUNT (per 6" interval)	RECOV. / ADV. (feet)
			Lithology	Borehole Abandoned	Water Level	Lab	Lith			
5	5-6.5' CLAYEY, SILTY SAND - mod brn, 5YR 3/4, f to m g sand, moist, no odor.	SM to SC						.9/.9	8-18-23	
10	10-11.5' SILTY SAND - mod yel brn, 10YR 5/4, f to m g sand, no odor, minor clay.	SM						.4/.4	10-16-20	
15	15-16.5' SILTY SAND - as at 10'.	SM						.4/.4	6-11-15	
20	20-21.5' CLAYEY, SILTY SAND - mod yel brn 10 YR 5/4, f g sand, moist, no odor, minor small pebbles.	SM to SC						.4/.4	6-15-29	
25	25-26.5' SILTY SAND - mod yel brn, 10YR 5/4, f to m g sand, no odor, minor clay.	SM						0/0	6-9-14	
30	30-31.5' SILTY SAND - dk yel orange, 10YR 6/6, f to c g sand, no odor, no clay, about 5% shell frags.	SM						0/0	5-19-30	
35										
40										

GROUT

NO GROUND WATER ENCOUNTERED
ONE COMPOSITE SAMPLE FOR ENTIRE BORING

CLIENT MDC REALTY COMPANY BOREHOLE NO. B-3 CAMP DRESSER & MCKEE INC.
 SITE C-6 FACILTY, TORRANCE TOTAL DEPTH 31.5 feet ELEVATION N. A.
 JOB NUMBER 2299-115-RT-AUDT DATE DRILLED 18 JULY 91 LOGGED BY EMILY WEYAND
 DRILLING CONTR. BEYLIK DRILLING DRILLING METHOD HOLLOW-STEM AUGER

DEPTH (feet)	DESCRIPTION	USCS	GRAPHIC LOG			SAMPLES		PID (ppm) and R/hr	BLOW COUNT (per 6" interval)	RECOV. / ADV. (feet)
			Lithology	Borehole Abandoned	Water Level	Lab	Lith			
5	5-6.5' SILTY SAND - mod yel brn, 10YR 5/4, f to m g sand. moist, no odor, minor clay, tr fine gravel.	SM						0/0	5-10-21	
10	10-11.5' SILTY SAND - as at 5'.	SM						0/0	6-11-22	
15	15-16.5' SILTY SAND - as at 5'.	SM						0/0	4-9-17	
20	20-21.5' SILTY SAND - as at 5', but w/ 5% pebbles.	SM						0/0	8-24-30	
25	25-26.5' SILTY SAND - dk yel brn, 10YR 6/6, f to c g sand, no odor.	SM						0/0	11-15-22	
30	30-31.5' SILTY SAND -as at 25' but with 10-20% shell frags.	SM						0/0	10-21-30	
35										
40										

CLIENT MDC REALTY COMPANY
 SITE C-6 FACILTY, TORRANCE
 JOB NUMBER 2299-115-RT-AUDT
 DRILLING CONTR. BEYLIK DRILLING

BOREHOLE NO. B-4

TOTAL DEPTH 31.5 feet

CAMP DRESSER & MCKEE INC.

ELEVATION N. A.

DATE DRILLED 18 JULY 91

LOGGED BY EMILY WEYAND

DRILLING METHOD HOLLOW-STEM AUGER

DEPTH (feet)	DESCRIPTION	USCS	GRAPHIC LOG			SAMPLES		PID (ppm) and R/hr	BLOW COUNT (per 6" interval)	RECOV. / ADV. (feet)
			Lithology	Borehole Abandoned	Water Level	Lab	Lith			
5	5-6.5' SILTY SAND - mod yel brn, 10YR 5/4, f to m g sand, moist, no odor, trace clay, tr fine gravel.	SM						0/0	6-10-19	
10	10-11.5' SILTY SAND - as at 5'.	SM						0/0	5-8-15	
15	15-16.5' SILTY SAND - as at 5', w/ up to 5% clay.	SM						0/0	4-10-15	
20	20-21.5' SILTY SAND - mod yel brn, 10YR 5/4, f to c g sand, no odor, some dk yel orange staining.	SM						0/0	7-18-23	
25	25-26.5' SILTY SAND - mod yel brn, 10YR 5/4, f to c g sand, no odor, no staining.	SM						0/0	8-12-20	
30	30-31.5' SILTY SAND - as at 25'.	SM						4/4	7-20-22	
35										
40										

CLIENT MDC REALTY COMPANY
 SITE C-6 FACILTY, TORRANCE
 JOB NUMBER 2299-115-RT-AUDT
 DRILLING CONTR. BEYLIK DRILLING

BOREHOLE NO. B-5

TOTAL DEPTH 31.5 feet

DATE DRILLED 19 JULY 91

CAMP DRESSER & MCKEE INC.

ELEVATION N. A.

LOGGED BY EMILY WEYAND

DRILLING METHOD HOLLOW-STEM AUGER

DEPTH (feet)	DESCRIPTION	USCS	GRAPHIC LOG			SAMPLES		PID (ppm) and R/hr	BLOW COUNT (per 6" interval)	RECOV. / ADV. (feet)
			Lithology	Borehole Abandoned	Water Level	Lab	Lith			
5	5-6.5' SILTY SAND - mod yel brn, 10YR 5/4, f to m g sand, moist, no odor, up to 5% clay.	SM						0/0	13-18-25	
10	10-11.5' CLAYEY, SILTY SAND - dk yel brn, 10YR 4/2 f g sand, sl. moist, no odor, more clay than silt.	SM to SC						0/0	7-10-20	
15	15-16.5' SILTY SAND - as at 5', w/ only trace clay.	SM						0/0	6-11-17	
20	20-21.5' SILTY SAND - mod yel brn, 10YR 5/4, f to m g sand, no odor, no clay.	SM						0/0	8-13-19	
25	25-26.5' SILTY SAND - pale yel brn, 10YR 6/2, w/ dk yel orange Fe staining, 10YR 6/6, c to f g sand, no clay, no odor.	SM						0/0	7-11-19	
30	30-31.5' SILTY SAND - as at 25', but moist.	SM						.4/.4	7-14-20	
35										
40										

GROUT

NO GROUND WATER ENCOUNTERED
ONE COMPOSITE SAMPLE FOR ENTIRE BORING

CLIENT MDC REALTY COMPANY BOREHOLE NO. B-6 CAMP DRESSER & MCKEE INC.
 SITE C-6 FACILITY, TORRANCE TOTAL DEPTH 31.5 feet ELEVATION N. A.
 JOB NUMBER 2299-115-RT-AUDT DATE DRILLED 18 JULY 91 LOGGED BY EMILY WEYAND
 DRILLING CONTR. BEYLIK DRILLING DRILLING METHOD HOLLOW-STEM AUGER

DEPTH (feet)	DESCRIPTION	USCS	GRAPHIC LOG			SAMPLES		PID (ppm) and R/hr	BLOW COUNT (per 6" interval)	RECOV. / ADV. (feet)
			Lithology	Borehole Abandoned	Water Level	Lab	Lith			
5	5-6.5' CLAYEY, SILTY SAND - mod yel brn, 10YR 5/4, f g sand, moist, no odor, trace gravel.	SM to SC						0/0	10-27-43	
10	10-11.5' CLAYEY, SILTY SAND -dk yel brn, 10YR 4/2, f g sand, no odor, trace gravel.	SM to SC						0/0	6-18-36	
15	15-16.5' CLAYEY, SILTY SAND - as at 10'.	SM to SC						0/0	5-14-18	
20	20-21.5' SILTY SAND - dk yel orange, 10YR 6/6, f to c g sand, no odor, minor clay.	SM						0/0	8-10-17	
25	25-26.5' SILTY SAND - as at 20'.	SM						0/0	6-10-19	
30	30-31.5' CLAYEY, SILTY SAND - dk yel brn, 10YR 4/2, w/ dk yel orange staining, 10YR 6/6, f g sand.	SM to SC						0/0	4-6-12	
35										
40										

GROUT

NO GROUND WATER ENCOUNTERED
ONE COMPOSITE SAMPLE FOR ENTIRE BORING

APPENDIX 2
LABORATORY DATA SHEETS



*C K Y incorporated
Analytical Laboratories*

Date: 08/01/91
910758

CDM
18881 Von Karman, Suite #650
Irvine, CA 92715

Attn: Ms. Suzanne Rowe

Subject: Laboratory Report
Project: McDonnell Douglas Torrance

Enclosed is the laboratory report for samples received on 07/25/91 and 7/19/91. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

<u>Method</u>	<u>No. of Analysis</u>
EPA 6010/7000	5 Soil Composite
EPA 8010/8020	5 Soil Composite
EPA 8080	1 Soil Composite

The results are summarized on nine pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,

Kam Pang (c)
Dr. Kam Pang
Laboratory Director

EPA 3050/6010/7000
PRIOR. POLL METALS BY ICP/AA

=====

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/24/91
SAMPLE ID:	MDT-B1	DATE ANALYZED:	07/26/91
CONTROL NO:	910758-Comp. 1	MATRIX:	Soil

=====

<u>PARAMETERS</u>	<u>RESULTS</u> (<u>mg/kg</u>)	<u>DETECTION LIMIT</u> (<u>mg/kg</u>)
Antimony	ND	5.0
Arsenic	12	5.0
Beryllium	ND	0.50
Cadmium	2.9	0.50
Chromium - Total	23	0.50
Copper	23	0.50
Lead	ND	1.0
Mercury	ND	0.05
Nickel	11	1.0
Selenium	ND	5.0
Silver	ND	0.50
Thallium	ND	10
Zinc	68	0.50

=====



EPA 3050/6010/7000
PRIOR. POLL METALS BY ICP/AA

=====

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/24/91
SAMPLE ID:	MDT-B2	DATE ANALYZED:	07/26/91
CONTROL NO:	910758-Comp. 2	MATRIX:	Soil

=====

<u>PARAMETERS</u>	<u>RESULTS</u> (<u>mg/kg</u>)	<u>DETECTION LIMIT</u> (<u>mg/kg</u>)
Antimony	ND	5.0
Arsenic	11	5.0
Beryllium	ND	0.50
Cadmium	2.2	0.50
Chromium - Total	18	0.50
Copper	18	0.50
Lead	ND	1.0
Mercury	ND	0.05
Nickel	12	1.0
Selenium	ND	5.0
Silver	ND	0.50
Thallium	ND	10
Zinc	59	0.50

=====



EPA 3050/6010/7000
PRIOR. POLL METALS BY ICP/AA

=====

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/24/91
SAMPLE ID:	MDT-B3	DATE ANALYZED:	07/26/91
CONTROL NO:	910758-Comp. 3	MATRIX:	Soil

=====

<u>PARAMETERS</u>	<u>RESULTS</u> (<u>mg/kg</u>)	<u>DETECTION LIMIT</u> (<u>mg/kg</u>)
Antimony	ND	5.0
Arsenic	13	5.0
Beryllium	ND	0.50
Cadmium	2.4	0.50
Chromium - Total	19	0.50
Copper	19	0.50
Lead	ND	1.0
Mercury	ND	0.05
Nickel	10	1.0
Selenium	ND	5.0
Silver	ND	0.50
Thallium	ND	10
Zinc	62	0.50

=====



EPA 3050/6010/7000
PRIOR. POLL METALS BY ICP/AA

=====

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/24/91
SAMPLE ID:	MDT-B6	DATE ANALYZED:	07/26/91
CONTROL NO:	910758-Comp. 4	MATRIX:	Soil

=====

<u>PARAMETERS</u>	<u>RESULTS</u> <u>(mg/kg)</u>	<u>DETECTION LIMIT</u> <u>(mg/kg)</u>
Antimony	ND	5.0
Arsenic	7.8	5.0
Beryllium	ND	0.50
Cadmium	1.9	0.50
Chromium - Total	14	0.50
Copper	11	0.50
Lead	ND	1.0
Mercury	ND	0.05
Nickel	8.5	1.0
Selenium	ND	5.0
Silver	ND	0.50
Thallium	ND	10
Zinc	44	0.50

=====

EPA 3050/6010/7000
PRIOR. POLL METALS BY ICP/AA

=====

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/24/91
SAMPLE ID:	MDT-B4	DATE ANALYZED:	07/26/91
CONTROL NO:	910758-Comp. 5	MATRIX:	Soil

=====

<u>PARAMETERS</u>	RESULTS (<u>mg/kg</u>)	DETECTION LIMIT (<u>mg/kg</u>)
Antimony	ND	5.0
Arsenic	15	5.0
Beryllium	ND	0.50
Cadmium	2.4	0.50
Chromium - Total	20	0.50
Copper	24	0.50
Lead	ND	1.0
Mercury	ND	0.05
Nickel	13	1.0
Selenium	ND	5.0
Silver	ND	0.50
Thallium	ND	10
Zinc	65	0.50

=====

EPA METHOD 8010/8020

=====

CLIENT: CDM DATE REC'D: 07/19/91
 PROJECT: McDonnell Douglas DATE ANALYZED: 07/21/91
 MATRIX TYPE: Soil

=====

SAMPLE ID: CONTROL NO.: 91C753	BLANK Comp. 1	MDT-B1 Comp. 2	MDT-B2 Comp. 3	MDT-B3 Comp. 4	MDT-B6 Comp. 5	MDT-B4	DETEC LIMIT (ug/kg)
PARAMETERS (8010)							
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	20
Chloromethane	ND	ND	ND	ND	ND	ND	20
Vinyl Chloride	ND	ND	ND	ND	ND	ND	20
Bromomethane	ND	ND	ND	ND	ND	ND	20
Chloroethane	ND	ND	ND	ND	ND	ND	20
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	-
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	-
Methylene Chloride	ND	ND	ND	ND	ND	ND	-
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	-
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	5
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	5
Trichloroethene	ND	ND	ND	ND	ND	ND	5
1,2-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	5
Ethylene Dibromide	ND	ND	ND	ND	ND	ND	5
Chlorobenzene	ND	ND	ND	8.4	ND	ND	5
Bromoform	ND	ND	ND	ND	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND
Chlorotoluene	ND	ND	ND	ND	ND	ND	ND
M-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
P-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
Benzylchloride	ND	ND	ND	ND	ND	ND	ND
O-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND
PARAMETER (8020)							
Benzene	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND	ND	ND	ND
% Surrogate Recovery:	116	106	110	119	98	106	



QUALITY CONTROL DATA

CLIENT: CDM
 PROJECT: McDonnell Douglas
 CONTROL NO: 910758

METHOD EPA 8010/8020
 MATRIX: Soil

SAMPLE ID: 910758-B4

<u>COMPOUND</u>	<u>SAMPLE RESULTS</u> (<u>ug/kg</u>)	<u>AMOUNT SPIKED</u> (<u>ug/kg</u>)	<u>% REC.</u>	<u>DUP. % REC.</u>	<u>RPD</u>
11-DCE	ND	50	104	108	4
Benzene	ND	50	112	112	0
TCE	ND	50	124	126	2
Toluene	ND	50	114	116	2
Chl. Benzene	ND	50	126	128	2

METHOD EPA 3050/6010
 MATRIX: Soil

SAMPLE ID: 910758-Comp. 1

<u>COMPOUND</u>	<u>SAMPLE RESULTS</u> (<u>mg/kg</u>)	<u>AMOUNT SPIKED</u> (<u>mg/kg</u>)	<u>% REC.</u>	<u>DUP. % REC.</u>	<u>RPD</u>
Zinc	68	100	84	87	2
Chromium	23	100	82	81	0
Copper	23	100	84	83	0

EPA METHOD 8080 - PESTICIDES & PCBs

=====

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/26/91
SAMPLE ID:	MDT-B4	DATE ANALYZED:	07/29/91
CONTROL NO:	910758-Comp. 5	MATRIX:	Soil

=====

<u>PARAMETERS (8080)</u>	<u>RESULTS</u> (<u>mg/kg</u>)	<u>DETECTION LIMIT</u> (<u>mg/kg</u>)
Aldrin	ND	0.02
Alpha-BHC	ND	0.01
Beta-BHC	ND	0.02
Delta-BHC	ND	0.02
Gamma-BHC (Lindane)	ND	0.01
Chlordane	ND	.05
4,4'-DDD	ND	.02
4,4'-DDE	ND	.02
4,4'-DDT	ND	.02
Dieldrin	ND	.02
Endosulfan I	ND	.02
Endosulfan II	ND	.05
Endosulfan Sulfate	ND	.05
Endrin	ND	.02
Endrin Aldehyde	ND	.05
Heptachlor	ND	.02
Heptachlor Epoxide	ND	.02
Methoxychlor	ND	.1
Toxaphene	ND	.1
Aroclor - 1016	ND	.1
Aroclor - 1221	ND	.1
Aroclor - 1232	ND	.1
Aroclor - 1242	ND	.1
Aroclor - 1248	ND	.1
Aroclor - 1254	ND	.1
Aroclor - 1260	ND	.1

% Recovery:

Dibutylchorendate	87
2,4,5,6-Tetrachloro-m-xylene	99

EPA METHOD 8080 - PESTICIDES & PCBs

=====

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/26/91
SAMPLE ID:	Method Blank	DATE ANALYZED:	07/29/91
CONTROL NO:	910758	MATRIX:	Soil

=====

<u>PARAMETERS (8080)</u>	<u>RESULTS (mg/kg)</u>	<u>DETECTION LIMIT (mg/kg)</u>
Aldrin	ND	0.02
Alpha-BHC	ND	0.01
Beta-BHC	ND	0.02
Delta-BHC	ND	0.02
Gamma-BHC (Lindane)	ND	0.01
Chlordane	ND	.05
4,4'-DDD	ND	.02
4,4'-DDE	ND	.02
4,4'-DDT	ND	.02
Dieldrin	ND	.02
Endosulfan I	ND	.02
Endosulfan II	ND	.05
Endosulfan Sulfate	ND	.05
Endrin	ND	.02
Endrin Aldehyde	ND	.05
Heptachlor	ND	.02
Heptachlor Epoxide	ND	.02
Methoxychlor	ND	.1
Toxaphene	ND	.1
 Aroclor - 1016	ND	.1
Aroclor - 1221	ND	.1
Aroclor - 1232	ND	.1
Aroclor - 1242	ND	.1
Aroclor - 1248	ND	.1
Aroclor - 1254	ND	.1
Aroclor - 1260	ND	.1

% Recovery:

Dibutylchorendate	87
2,4,5,6-Tetrachloro-m-xylene	99



LIST OF COMPOSITE

<u>COMPOSITE</u>	<u>SAMPLE ID</u>	<u>CKY CONTROL #</u>
910758-Comp 1	MDT-B1-5' MDT-B1-10' MDT-B1-15' MDT-B1-20' MDT-B1-25' MDT-B1-30'	910758-1 910758-3 910758-5 910758-7 910758-9 910758-11
910758-Comp 2	MDT-B2-5' MDT-B2-10' MDT-B2-15' MDT-B2-20' MDT-B2-25' MDT-B2-30'	910758-13 910758-15 910758-17 910758-19 910758-21 910758-23
910758-Comp 3	MDT-B3-5 ' MDT-B3-10 ' MDT-B3-15 ' MDT-B3-20 ' MDT-B3-25 ' MDT-B3-30 '	910758-25 910758-27 910758-29 910758-31 910758-33 910758-35
910758-Comp 6	MDT-B6-5 ' MDT-B6-10 ' MDT-B6-15 ' MDT-B6-20 ' MDT-B6-25 ' MDT-B6-30 '	910758-37 910758-39 910758-41 910758-43 910758-45 910758-47
910758-Comp 4	MDT-B4-5 ' MDT-B4-10 ' MDT-B4-15 ' MDT-B4-20 ' MDT-B4-25 ' MDT-B4-30 '	910758-49 910758-51 910758-53 910758-55 910758-57 910758-59



11200 Bunnell Ave., Unit A, Mountain View, CA 94031, (415) 650-0346
 ☐ 2325 Skyway Dr., Unit K, Santa Clara, CA 95051, (408) 922-2776
 ☐ 9517 Telstar Ave., Unit 118, El Monte, CA 91731, (818) 442-8400
 ☐ Mobile Lab Test Report - Enseco #6

11200 Bunnell Ave., Unit A, Mountain View, CA 94031, (415) 650-0346
 ☐ 2325 Skyway Dr., Unit K, Santa Clara, CA 95051, (408) 922-2776
 ☐ 9517 Telstar Ave., Unit 118, El Monte, CA 91731, (818) 442-8400
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 ☐ Mobile Lab Test Report - Enseco #6

Date 7/18/91 Page 1 of 4
 Lab Number

C1

CLIENT	S P M		PROJECT MANAGER		ANALYSES							
ADDRESS	18681 Von Karman		S. Bour									
PROJECT NAME	South 650 Irvine, CA 92715		PHONE NUMBER									
CONTRACT / PURCHASE ORDER / QUOTE #	McDonnell Douglas Torrance		74752-5452									
SITE CONTACT	E. Weigert		SAMPLE TYPE		No. of Containers							
	Sample No. / Identification	Date	Time	Lab Sample Number	Liq.	AIR	SOLID					
1	MDT-B1-5'	7/18	15:11		X			1	C	C	C	(3" S.S. Share
2	MDT-B1-5.2'	/	↓									
3	MDT-B1-10'	/		805					C	C		
4	MDT-B1-10.2'	/							C	C		
5	MDT-B1-15'	/		815					C	C		
6	MDT-B1-15.2'	/										
7	MDT-B1-20'	/		825								
8	MDT-B1-20.2'	/										
9	MDT-B1-25'	/		845								
10	MDT-B1-25.2'	↓										
SAMPLERS: (Signature)		Received by: (Signature)		Date 7/18/91		Time 7:30		SAMPLE DISPOSITION:				
C. Weigert		KEV11						The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Enseco Terms and Conditions, unless a contract or purchase order has been executed and is cited above.				
Relinquished by: (Signature)		Received by: (Signature)		Date		Time		1. Storage time requested: _____ days (Samples will be stored for 30 days without additional charges.)				
X X X		X X X		X		X		2. Sample to be returned to client: Y N (Enseco will dispose of unreturned samples at no extra charge. Disposal will be by incineration wherever possible; otherwise, as appropriate, according to legal requirements.)				
Relinquished by: (Signature)		Date Received for Laboratory by:		Date RECEIVED		Time		Date ACCEPTED		Time		
X X X		X X X		7/19		8 am						
Method of Shipment:												
Special Instructions: \$ by 8/10/91 1000 (IMPORTANT) Please Composite G-S' Interval samples from each jointing (5' 10' 15' 20' 25' 30') to make composite for each section (5.2' 10.2' 15.2' 20.2' 25.2' 30')												
DISTRIBUTION: White with report, Yellow to Enseco, Pink to Courier, Gold to Sample Control												

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

PROJECT NAME McGowen's Dunes
TOWN Tyron

Field Log Book
Reference No.:

PROJECT NUMBER 2299-115-

Field Log Book
Reference No.:

SCANNED BY

L. License

NOTE: Please follow combining directions on P. 1 of ~~these~~ ~~values~~

RELINQUISHED BY (SIGN) REINSTITUTED BY (SIGN)

① <u>Early Death</u>	<input checked="" type="checkbox"/>
② <u>Relinquished By (Sign)</u>	<input checked="" type="checkbox"/>
③ <u>Relinquished BY (SIGN)</u>	<input checked="" type="checkbox"/>

DATE/TIME (7/8 17:35) DATE/TIME (/) DATE/TIME (/) DATE/TIME (/)

RECEIVED BY (SIGN) KEVIN

DATE/TIME (7/18 / 7:35) DATE/TIME (7/18 / 7:35) DATE/TIME (7/18 / 7:35)

DATE/TIME

17/19 , Sam

LEGEND: Original: Return to Sample Traffic Control Center Couples: Ship with Samples

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

CDM

PROJECT NAME McDonnell Douglas
TensileField Log Book
Reference No. _____PROJECT NUMBER 2274-11S-RT

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES	EXTR. ORG. TEST / PCB MEASURED	VOL. %	NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
MDT										2.5 x 3' 55 Slab
B3	10.2	7/19	1337	B3	Soil					
31	15		1345		CC					
32	15.2		1352		CC					
33	20		1352		CC					
34	20.2		1400		CC					
35	25		1400		CC					
36	25.2		1415		CC					
37	30		1415		CC					
38	30.2		1420		CC					
39	5		1420		CC					
40	5.2		1425		CC					
41	10		1425		CC					
42	10.2		1430		CC					
43	15		1430		CC					
44	15.2		1430		CC					
45	20		1430		CC					
46	20.2		1430		CC					
47	25		1430		CC					
48	25.2		1430		CC					
49	30		1430		CC					
50	30.2		1430		CC					
51	5		1430		CC					
52	5.2		1430		CC					
53	10		1430		CC					
54	10.2		1430		CC					
55	15		1430		CC					
56	15.2		1430		CC					
57	20		1430		CC					
58	20.2		1430		CC					
59	25		1430		CC					
60	25.2		1430		CC					
61	30		1430		CC					
62	30.2		1430		CC					
63	5		1430		CC					
64	5.2		1430		CC					
65	10		1430		CC					
66	10.2		1430		CC					
67	15		1430		CC					
68	15.2		1430		CC					
69	20		1430		CC					
70	20.2		1430		CC					
71	25		1430		CC					
72	25.2		1430		CC					
73	30		1430		CC					
74	30.2		1430		CC					
75	5		1430		CC					
76	5.2		1430		CC					
77	10		1430		CC					
78	10.2		1430		CC					
79	15		1430		CC					
80	15.2		1430		CC					
81	20		1430		CC					
82	20.2		1430		CC					
83	25		1430		CC					
84	25.2		1430		CC					
85	30		1430		CC					
86	30.2		1430		CC					
87	5		1430		CC					
88	5.2		1430		CC					
89	10		1430		CC					
90	10.2		1430		CC					
91	15		1430		CC					
92	15.2		1430		CC					
93	20		1430		CC					
94	20.2		1430		CC					
95	25		1430		CC					
96	25.2		1430		CC					
97	30		1430		CC					
98	30.2		1430		CC					
99	5		1430		CC					
100	5.2		1430		CC					
101	10		1430		CC					
102	10.2		1430		CC					
103	15		1430		CC					
104	15.2		1430		CC					
105	20		1430		CC					
106	20.2		1430		CC					
107	25		1430		CC					
108	25.2		1430		CC					
109	30		1430		CC					
110	30.2		1430		CC					
111	5		1430		CC					
112	5.2		1430		CC					
113	10		1430		CC					
114	10.2		1430		CC					
115	15		1430		CC					
116	15.2		1430		CC					
117	20		1430		CC					
118	20.2		1430		CC					
119	25		1430		CC					
120	25.2		1430		CC					
121	30		1430		CC					
122	30.2		1430		CC					
123	5		1430		CC					
124	5.2		1430		CC					
125	10		1430		CC					
126	10.2		1430		CC					
127	15		1430		CC					
128	15.2		1430		CC					
129	20		1430		CC					
130	20.2		1430		CC					
131	25		1430		CC					
132	25.2		1430		CC					
133	30		1430		CC					
134	30.2		1430		CC					
135	5		1430		CC					
136	5.2		1430		CC					
137	10		1430		CC					
138	10.2		1430		CC					
139	15		1430		CC					
140	15.2		1430		CC					
141	20		1430		CC					
142	20.2		1430		CC					
143	25		1430		CC					
144	25.2		1430		CC					
145	30		1430		CC					
146	30.2		1430		CC					
147	5		1430		CC					
148	5.2		1430		CC					
149	10		1430		CC					
150	10.2		1430		CC					
151	15		1430		CC					
152	15.2		1430		CC					
153	20		1430		CC					
154	20.2		1430		CC					
155	25		1430		CC					
156	25.2		1430		CC					
157	30		1430		CC					
158	30.2		1430		CC					
159	5		1430		CC					
160	5.2		1430		CC					
161	10		1430		CC					
162	10.2		1430		CC					
163	15		1430		CC					
164	15.2		1430		CC					
165	20		1430		CC					
166	20.2		1430		CC					
167	25		1430		CC					
168	25.2		1430		CC					
169	30		1430		CC					
170	30.2		1430		CC					
171	5		1430		CC					
172	5.2		1430		CC					
173	10		1430		CC					
174	10.2		1430		CC					
175	15		1430		CC					
176	15.2		1430		CC					
177	20		1430		CC					
178	20.2		1430		CC					
179	25		1430		CC					
180	25.2		1430		CC					
181	30		1430		CC					
182	30.2		1430		CC					
183	5		1430		CC					
184	5.2		1430		CC					
185	10		1430		CC					
186	10.2		1430		CC					
187	15		1430		CC					
188	15.2		1430		CC					
189	20		1430		CC					
190	20.2		1430		CC					
191	25		1430		CC					
192	25.2		1430		CC					
193	30		1430		CC					
194	30.2		1430		CC					
195	5		1430		CC					
196	5.2		1430		CC					
197	10		1430		CC					
198	10.2		1430		CC					

CHAIN OF CUSTODY RECORD

PROJECT NAME Mc Donnell Douglas
Tonka

Camp Dresser & McKee Inc.

CDM

Field Log Book
 Reference No. 110105

PROJECT NUMBER 2279-115-RT
 Audit

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES	EXTR ORG	TRACE PCB	TRACE METALS	SOIL	NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
CMDT B 6	25.2	7:18:11	1713	B6		C C				1		J.Sx3"SS Sheet
4L 47	25.2	1725				C C						
4L 48	30.2					C C C						
4L 49	30.2					C C C						
4L 50	5.2					C C C						
4L 51	10.2					C C C						
4L 52	10.2					C C C						
4L 53	15.2					C C C						
4L 54	15.2					C C C						
4L 55	20.2					C C C						
4L 56	20.2					C C C						
4L 57	25.2					C C C						
4L 58	30.2					C C C						
4L 59	30.2					C C C						
4L 60	5.2					C C C						
4L 61	10.2					C C C						
4L 62	15.2					C C C						
4L 63	20.2					C C C						
4L 64	25.2					C C C						
4L 65	30.2					C C C						
4L 66	5.2					C C C						
4L 67	10.2					C C C						
4L 68	15.2					C C C						
4L 69	20.2					C C C						
4L 70	25.2					C C C						
4L 71	30.2					C C C						
4L 72	5.2					C C C						
4L 73	10.2					C C C						
4L 74	15.2					C C C						
4L 75	20.2					C C C						
4L 76	25.2					C C C						
4L 77	30.2					C C C						
4L 78	5.2					C C C						
4L 79	10.2					C C C						
4L 80	15.2					C C C						
4L 81	20.2					C C C						
4L 82	25.2					C C C						
4L 83	30.2					C C C						
4L 84	5.2					C C C						
4L 85	10.2					C C C						
4L 86	15.2					C C C						
4L 87	20.2					C C C						
4L 88	25.2					C C C						
4L 89	30.2					C C C						
4L 90	5.2					C C C						
4L 91	10.2					C C C						
4L 92	15.2					C C C						
4L 93	20.2					C C C						
4L 94	25.2					C C C						
4L 95	30.2					C C C						
4L 96	5.2					C C C						
4L 97	10.2					C C C						
4L 98	15.2					C C C						
4L 99	20.2					C C C						
4L 100	25.2					C C C						
4L 101	30.2					C C C						
4L 102	5.2					C C C						
4L 103	10.2					C C C						
4L 104	15.2					C C C						
4L 105	20.2					C C C						
4L 106	25.2					C C C						
4L 107	30.2					C C C						
4L 108	5.2					C C C						
4L 109	10.2					C C C						
4L 110	15.2					C C C						
4L 111	20.2					C C C						
4L 112	25.2					C C C						
4L 113	30.2					C C C						
4L 114	5.2					C C C						
4L 115	10.2					C C C						
4L 116	15.2					C C C						
4L 117	20.2					C C C						
4L 118	25.2					C C C						
4L 119	30.2					C C C						
4L 120	5.2					C C C						
4L 121	10.2					C C C						
4L 122	15.2					C C C						
4L 123	20.2					C C C						
4L 124	25.2					C C C						
4L 125	30.2					C C C						
4L 126	5.2					C C C						
4L 127	10.2					C C C						
4L 128	15.2					C C C						
4L 129	20.2					C C C						
4L 130	25.2					C C C						
4L 131	30.2					C C C						
4L 132	5.2					C C C						
4L 133	10.2					C C C						
4L 134	15.2					C C C						
4L 135	20.2					C C C						
4L 136	25.2					C C C						
4L 137	30.2					C C C						
4L 138	5.2					C C C						
4L 139	10.2					C C C						
4L 140	15.2					C C C						
4L 141	20.2					C C C						
4L 142	25.2					C C C						
4L 143	30.2					C C C						
4L 144	5.2					C C C						
4L 145	10.2					C C C						
4L 146	15.2					C C C						
4L 147	20.2					C C C						
4L 148	25.2					C C C						
4L 149	30.2					C C C						
4L 150	5.2					C C C						
4L 151	10.2					C C C						
4L 152	15.2					C C C						
4L 153	20.2					C C C						
4L 154	25.2					C C C						
4L 155	30.2					C C C						
4L 156	5.2					C C C						
4L 157	10.2					C C C						
4L 158	15.2					C C C						
4L 159	20.2					C C C						
4L 160	25.2					C C C						
4L 161	30.2					C C C						
4L 162	5.2					C C C						
4L 163	10.2					C C C						
4L 164	15.2					C C C						
4L 165	20.2					C C C						
4L 166	25.2					C C C						
4L 167	30.2					C C C						
4L 168	5.2					C C C						
4L 169	10.2					C C C						
4L 170	15.2					C C C						
4L 171	20.2					C C C						
4L 172	25.2					C C C						
4L 173	30.2					C C C						
4L 174	5.2					C C C						
4L 175	10.2					C C C						
4L 176	15.2					C C C						
4L 177	20.2					C C C						
4L 178	25.2					C C C						
4L 179	30.2					C C C						
4L 180	5.2					C C C						
4L 181	10.2					C C C						
4L 182	15.2					C C C						
4L 183	20.2					C C C						
4L 184	25.2					C C C						
4L 185	30.2					C C C						
4L 186	5.2					C C C						
4L 187	10.2					C C C						
4L 188	15.2					C C C						
4L 189	20.2					C C C						
4L 190	25.2					C C C						
4L 191	30.2					C C C						
4L 192	5.2					C C C						
4L 193	10.2					C C C						
4L 194	15.2					C C C						
4L 195	20.2					C C C						

AUG 07 1991

**C K Y incorporated
Analytical Laboratories**

GK

Date: 08/01/91
910759

CDM
18881 Von Karman, Ste. 650
Irvine CA 92715

Attn: Ms. Suzanne Rowe

Subject: Laboratory Report
Project: McDonnel Douglas-Torrance

Enclosed is the laboratory report for samples received on 07/19/91. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

<u>Method</u>	<u>No. of Analysis</u>
EPA 8010/8020	1 Soil Composite
EPA 8080	1 Soil Composite
EPA 6010	1 Soil Composite

The results are summarized on six pages.

Please feel free to call if you have any questions concerning these results.

Sincerely,



Dr. Kam Pang
Laboratory Director

EPA METHODS - 8010/8020

CLIENT: CDM DATE REC'D: 07/19/91
 PROJECT: McDonnel Douglas DATE EXTRACTED: N/A
 SAMPLE ID: MDT-B5-5',10',15',20',25',30' DATE ANALYZED: 07/22/91
 CONTROL NO: 910759-1,3,5,7,9,11 MATRIX TYPE: Soil

<u>PARAMETERS (8010)</u>	RESULTS (ug/kg)	DETECTION LIMIT (ug/kg)
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
<u>PARAMETERS (8020)</u>		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Xylenes	ND	5
% Surrogate Recovery:	110	

EPA METHODS - 8010/8020

CLIENT: CDM DATE REC'D: 07/19/91
 PROJECT: McDonnel Douglas DATE EXTRACTED: N/A
 SAMPLE ID: Method Blank DATE ANALYZED: 07/22/91
 CONTROL NO: 910759 MATRIX TYPE: Soil

<u>PARAMETERS (8010)</u>	RESULTS (ug/kg)	DETECTION LIMIT (ug/kg)
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
<u>PARAMETERS (8020)</u>		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Xylenes	ND	5

% Surrogate Recovery: 116



EPA METHOD 8080 - PESTICIDES & PCBs

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/26/91
SAMPLE ID:	MDT-B5-5',10',15',20',25',30'	DATE ANALYZED:	07/29/91
CONTROL NO:	910759-1,3,5,7,9,11	MATRIX:	Soil

<u>PARAMETERS (8080)</u>	<u>RESULTS (mg/kg)</u>	<u>DETECTION LIMIT (mg/kg)</u>
Aldrin	ND	0.02
Alpha-BHC	ND	0.01
Beta-BHC	ND	0.02
Delta-BHC	ND	0.02
Gamma-BHC (Lindane)	ND	0.01
Chlordane	ND	.05
4,4'-DDD	ND	.02
4,4'-DDE	ND	.02
4,4'-DDT	ND	.02
Dieldrin	ND	.02
Endosulfan I	ND	.05
Endosulfan II	ND	.05
Endosulfan Sulfate	ND	.02
Endrin	ND	.02
Endrin Aldehyde	ND	.05
Heptachlor	ND	.02
Heptachlor Epoxide	ND	.02
Methoxychlor	ND	.1
Toxaphene	ND	.1
Aroclor - 1016	ND	.1
Aroclor - 1221	ND	.1
Aroclor - 1232	ND	.1
Aroclor - 1242	ND	.1
Aroclor - 1248	ND	.1
Aroclor - 1254	ND	.1
Aroclor - 1260	ND	.1

* Recovery:

Dibutylchorendate	98
2,4,5,6-Tetrachloro-m-xylene	115

EPA METHOD 8080 - PESTICIDES & PCBs

CLIENT:	CDM	DATE REC'D:	07/19/91
PROJECT:	McDonnel Douglas	DATE EXTRACTED:	07/26/91
SAMPLE ID:	Method Blank	DATE ANALYZED:	07/29/91
CONTROL NO:	910759	MATRIX:	Soil

<u>PARAMETERS (8080)</u>	<u>RESULTS (mg/kg)</u>	<u>DETECTION LIMIT (mg/kg)</u>
Aldrin	ND	0.02
Alpha-BHC	ND	0.01
Beta-BHC	ND	0.02
Delta-BHC	ND	0.02
Gamma-BHC (Lindane)	ND	0.01
Chlordane	ND	.05
4,4'-DDD	ND	.02
4,4'-DDE	ND	.02
4,4'-DDT	ND	.02
Dieldrin	ND	.02
Endosulfan I	ND	.02
Endosulfan II	ND	.05
Endosulfan Sulfate	ND	.05
Endrin	ND	.02
Endrin Aldehyde	ND	.05
Heptachlor	ND	.02
Heptachlor Epoxide	ND	.02
Methoxychlor	ND	.1
Toxaphene	ND	.1
 Aroclor - 1016	ND	.1
Aroclor - 1221	ND	.1
Aroclor - 1232	ND	.1
Aroclor - 1242	ND	.1
Aroclor - 1248	ND	.1
Aroclor - 1254	ND	.1
Aroclor - 1260	ND	.1

% Recovery:

Dibutylchorendate	87
2,4,5,6-Tetrachloro-m-xylene	99

EPA 3050/6010/7000
CAM METALS BY ICP/AAS

CLIENT: CDM DATE REC'D: 07/19/91
PROJECT: McDonnel Douglas DATE EXTRACTED: 07/24/91
SAMPLE ID: MDT-B5-5',10',15',20',25',30' DATE ANALYZED: 07/26/91
CONTROL NO: 910759-1,3,5,7,9,11 MATRIX: Soil

<u>PARAMETERS</u>	<u>RESULTS</u> (<u>mg/kg</u>)	<u>DETECTION LIMIT</u> (<u>mg/kg</u>)
Antimony	ND	5.0
Arsenic	ND	5.0
Beryllium	ND	0.50
Cadmium	1.6	0.50
Chromium - Total	13	0.50
Copper	11	0.50
Lead	ND	1.0
Mercury	ND	0.002
Nickel	9.4	1.0
Selenium	ND	5.0
Silver	ND	0.50
Thallium	ND	10
Zinc	40	0.50

QUALITY CONTROL DATA

CLIENT: CDM
PROJECT: McDonnel Douglas
CONTROL NO: 910759

METHOD EPA 3050/6010
MATRIX: Soil

SAMPLE ID: 910758-Comp. 1

<u>COMPOUND</u>	<u>SAMPLE RESULTS</u> (mg/kg)	<u>AMOUNT SPIKED</u> (mg/kg)	<u>% REC.</u>	<u>DUP. % REC.</u>	<u>RPD</u>
Zinc	68	100	84	87	2
Chromium	23	100	82	81	0
Copper	23	100	84	83	0

METHOD EPA 8010/8020
MATRIX: Soil

SAMPLE ID: 910758-Comp. 5

<u>COMPOUND</u>	<u>SAMPLE RESULTS</u> (ug/kg)	<u>AMOUNT SPIKED</u> (ug/kg)	<u>% REC.</u>	<u>DUP. % REC.</u>	<u>RPD</u>
1,1 DCE	ND	50	104	108	4
Benzene	ND	50	112	112	0
TCE	ND	50	124	126	2
Toluene	ND	50	114	116	2
Chl. Benzene	ND	50	126	128	2
